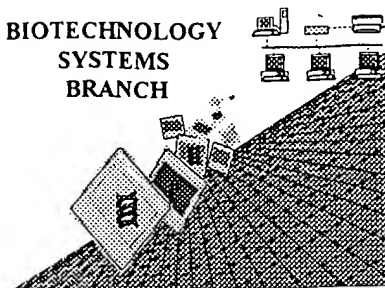




BIOTECHNOLOGY  
SYSTEMS  
BRANCH



0460  
02-02-01

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/753,139  
Source: OIFE  
Date Processed by STIC: 1/23/2001

RECEIVED

APR 18 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## **IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  
Please do not report the images to the  
Image Problem Mailbox.

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/753,139

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2        Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3        Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4        Misaligned Amino Acid      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs  
Numbering      between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5        Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6        Variable Length      Sequence(s)        contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and  
indicate in the (ix) feature section that some may be missing.
- 7        PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
sequence(s)       . Normally, PatentIn would automatically generate this section from the  
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section  
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>  
sections for Artificial or Unknown sequences.
- 8        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence:  
(OLD RULES)      (2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence.  
(NEW RULES)      <210> sequence id number  
                         <400> sequence id number  
                         000
- 10        Use of n's or Xaa's      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11        Use of <213>Organism      Sequence(s)        are missing this mandatory field or its response.  
(NEW RULES)
- 12        Use of <220>Feature      Sequence(s)        are missing the <220>Feature and associated headings.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
                         Please explain source of genetic material in <220> to <223> section.  
                         (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13        PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted  
                         file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
                         Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/753,139

DATE: 01/23/2001  
 TIME: 10:38:55

Input Set : A:\ES.txt  
 Output Set: N:\CRF3\01232001\I753139.raw

Does Not Comply  
 Corrected Diskette Needed

pg 1-3

3 <110> APPLICANT: Quirk, Stephen  
 4 Tyrrell, David  
 6 <120> TITLE OF INVENTION: Design and Use of Advanced Zinc Chelating Peptides to Regulate Matrix  
 7 Metalloproteinases  
 9 <130> FILE REFERENCE: 44039-227522 11361-0200  
 11 <140> CURRENT APPLICATION NUMBER: US/09/753,139  
 11 <141> CURRENT FILING DATE: 2000-12-29  
 11 <160> NUMBER OF SEQ ID NOS: 10  
 13 <170> SOFTWARE: PatentIn version 3.0  
 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 7  
 17 <212> TYPE: PRT  
 18 <213> ORGANISM: Synthetic Peptide  
 20 <220> FEATURE:  
 21 <221> NAME/KEY: VARIANT  
 22 <222> LOCATION: (2)..(2)  
 23 <223> OTHER INFORMATION: X = Ser or Thr  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: VARIANT  
 28 <222> LOCATION: (4)..(4)  
 29 <223> OTHER INFORMATION: X = Ser, Ala or Val  
 32 <400> SEQUENCE: 1  
 34 Cys Xaa Cys Xaa Pro His Pro  
 35 1 5  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 12  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Synthetic Peptide  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: VARIANT  
 44 <222> LOCATION: (1)..(1)  
 45 <223> OTHER INFORMATION: X = Ile or Val  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: VARIANT  
 50 <222> LOCATION: (2)..(2)  
 51 <223> OTHER INFORMATION: X = Glu, Gln or Arg  
 54 <220> FEATURE:  
 55 <221> NAME/KEY: VARIANT  
 56 <222> LOCATION: (3)..(3)  
 57 <223> OTHER INFORMATION: X = Phe or Tyr  
 60 <220> FEATURE:  
 61 <221> NAME/KEY: VARIANT  
 62 <222> LOCATION: (4)..(4)  
 63 <223> OTHER INFORMATION: X = Ile or Val  
 66 <220> FEATURE:  
 67 <221> NAME/KEY: VARIANT  
 68 <222> LOCATION: (5)..(5)

(Global error)

Per 1.823 of new Sequence Rules,  
 the only valid <213> responses are:  
 Unknown, Artificial Sequence, or  
 scientific name (Genus/species)

(one of the three)

(see circled portion of  
 Item 12 on Error Summary  
 sheet)

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/753,139  
 DATE: 01/23/2001  
 TIME: 10:38:55  
 Input Set : A:\ES.txt  
 Output Set: N:\CRF3\01232001\I753139.raw

69 <223> OTHER INFORMATION: X = Tyr or His  
 72 <220> FEATURE:  
 73 <221> NAME/KEY: VARIANT  
 74 <222> LOCATION: (7)..(7)  
 75 <223> OTHER INFORMATION: X = Ala, Pro or Glu  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: VARIANT  
 80 <222> LOCATION: (8)..(8)  
 81 <223> OTHER INFORMATION: X = Pro, Phe or Ala  
 84 <220> FEATURE:  
 85 <221> NAME/KEY: VARIANT  
 86 <222> LOCATION: (9)..(9)  
 87 <223> OTHER INFORMATION: X = Ser, Asp or Met  
 90 <220> FEATURE:  
 91 <221> NAME/KEY: VARIANT  
 92 <222> LOCATION: (10)..(10)  
 93 <223> OTHER INFORMATION: X = Ala or Ser  
 96 <220> FEATURE:  
 97 <221> NAME/KEY: VARIANT  
 98 <222> LOCATION: (11)..(11)  
 99 <223> OTHER INFORMATION: X = Val or Leu  
 102 <220> FEATURE:  
 103 <221> NAME/KEY: VARIANT  
 104 <222> LOCATION: (12)..(12)  
 105 <223> OTHER INFORMATION: X = Cys or Gly  
 108 <400> SEQUENCE: 2  
 110 Xaa Xaa Xaa Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa  
 111 1 5 10  
 113 <210> SEQ ID NO: 3  
 114 <211> LENGTH: 9  
 115 <212> TYPE: PRT  
 116 <213> ORGANISM: Synthetic Oligonucleotide  
 118 <220> FEATURE:  
 119 <221> NAME/KEY: VARIANT  
 120 <222> LOCATION: (1)..(1)  
 121 <223> OTHER INFORMATION: X = Met, Val or Leu  
 124 <220> FEATURE:  
 125 <221> NAME/KEY: VARIANT  
 126 <222> LOCATION: (2)..(2)  
 127 <223> OTHER INFORMATION: X = His, Phe or Tyr  
 130 <220> FEATURE:  
 131 <221> NAME/KEY: VARIANT  
 132 <222> LOCATION: (3)..(3)  
 133 <223> OTHER INFORMATION: X = Ile or Thr  
 136 <220> FEATURE:  
 137 <221> NAME/KEY: VARIANT  
 138 <222> LOCATION: (4)..(4)  
 139 <223> OTHER INFORMATION: X = Thr, His or Gly  
 142 <220> FEATURE:

*this is not a nucleotide sequence  
 see p. 1 regarding (2137) response*

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/753,139 DATE: 01/23/2001  
 TIME: 10:38:55

Input Set : A:\ES.txt  
 Output Set: N:\CRF3\01232001\I753139.raw

143 <221> NAME/KEY: VARIANT  
 144 <222> LOCATION: (5)..(5)  
 145 <223> OTHER INFORMATION: X = Leu or Thr  
 148 <220> FEATURE:  
 149 <221> NAME/KEY: VARIANT  
 150 <222> LOCATION: (7)..(7)  
 151 <223> OTHER INFORMATION: X = Asp, Asn or Ser  
 154 <220> FEATURE:  
 155 <221> NAME/KEY: VARIANT  
 156 <222> LOCATION: (8)..(8)  
 157 <223> OTHER INFORMATION: X = Phe or Tyr  
 160 <220> FEATURE:  
 161 <221> NAME/KEY: VARIANT  
 162 <222> LOCATION: (9)..(9)  
 163 <223> OTHER INFORMATION: X = Ile or Val  
 166 <400> SEQUENCE: 3  
 OK--> 168 Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa  
 169 1.. 5  
 171 <210> SEQ ID NO: 4  
 172 <211> LENGTH: 7  
 173 <212> TYPE: PRT  
 174 <213> ORGANISM: Synthetic Oligonucleotide  
 176 <400> SEQUENCE: 4  
 178 Cys Ser Ala Val Pro Val His  
 179 1.. 5  
 181 <210> SEQ ID NO: 5  
 182 <211> LENGTH: 7  
 183 <212> TYPE: PRT  
 184 <213> ORGANISM: Synthetic Peptide  
 186 <400> SEQUENCE: 5  
 188 Asp Ser Ala Val Pro Val His  
 189 1.. 5  
 191 <210> SEQ ID NO: 6  
 192 <211> LENGTH: 9  
 193 <212> TYPE: PRT  
 194 <213> ORGANISM: Synthetic Peptide  
 196 <400> SEQUENCE: 6  
 198 Ile Tyr Thr Ala Cys Met Ser Ala Val  
 199 1.. 5  
 201 <210> SEQ ID NO: 7  
 202 <211> LENGTH: 7  
 203 <212> TYPE: PRT  
 204 <213> ORGANISM: Synthetic Peptide  
 206 <400> SEQUENCE: 7  
 208 Val His Thr His Leu Cys Asp  
 209 1.. 5  
 211 <210> SEQ ID NO: 8  
 212 <211> LENGTH: 5  
 213 <212> TYPE: PRT

*not a nucleotide sequence  
 see p. 1 regarding (2137) response*

*see p. 1 regarding (2137) response*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/753,139      DATE: 01/23/2001  
TIME: 10:38:55

Input Set : A:\ES.txt  
Output Set: N:\CRF3\01232001\I753139.raw

214 <213> ORGANISM: Synthetic Peptide  
216 <400> SEQUENCE: 8  
218 Cys Thr Cys Val Pro  
219 1 5  
221 <210> SEQ ID NO: 9  
222 <211> LENGTH: 4  
223 <212> TYPE: PRT  
224 <213> ORGANISM: Synthetic Peptide  
226 <400> SEQUENCE: 9  
228 Cys Asp Ile Cys  
229 1  
231 <210> SEQ ID NO: 10  
232 <211> LENGTH: 5  
233 <212> TYPE: PRT  
234 <213> ORGANISM: Synthetic Peptide  
236 <400> SEQUENCE: 10  
238 His Thr Ile Thr His  
239 1 5

VERIFICATION SUMMARY                      DATE: 01/23/2001  
PATENT APPLICATION: US/09/753,139        TIME: 10:38:56

Input Set : A:\ES.txt  
Output Set: N:\CRF3\01232001\I753139.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3